CONSTRUCTION SEQUENCE PROVISIONS

- FACILITIES AND INFRASTRUCTURE IMPROVEMENTS IN WORK AREAS #1, #2 AND # 3 MAY BE CONDUCTED SEQUENTIALLY IN ORDER, BUT COULD ALSO BE COMPLETED SIMULTANEOUSLY AS DIRECTED BY AMTRAK IF APPROPRIATE.

-EXCAVATED MATERIALS FROM WORK AREAS #1,#2 AND # 3 NEED TO BE PLACED IN THE APPROPRIATE SOIL PILE IN THE DEDICATED AREA SHOWN (WORK AREA #4) ON THE **EROSION AND SEDIMENTATION (E&S) CONTROL PLANS. SOILS** STANTEC, THE EXCAVATED MATERIALS CAN THEN BE HAULED AWAY TO THE PROPER DESIGNATED DISPOSAL FACILITY.

NOTIFICATIONS PRIOR TO CONSTRUCTION

- NOTIFY THE DELAWARE DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL'S (DNREC) SEDIMENT AND STORMWATER PROGRAM AT LEAST 5 DAYS PRIOR TO THE START OF ANY LAND DISTURBANCE TO SCHEDULE A PRE-CONSTRUCTION MEETING AT (302) 739-9921 - PAUL MILLER OR STEVE BAGGETT OF STANTEC SHOULD BE CONTACTED AT (610) 840-2500 PRIOR TO BEGINNING CONSTRUCTION.

GENERAL NOTES

1. THE EARTH MOVING CONTRACTOR OR AMTRAK EXCAVATOR MUST CONTACT MISS UTILITY OF DELMARVA AT 800-282-8555 AND REQUEST THAT ALL UTILITY LINES BE MARKED IN THE FIELD ON THE PROJECT SITE "NOT LESS THAN 3 WORKING

THROUGH CARBON AND DISCHARGED TO THE EXISTING NPDES-PERMITTED STORMWATER CONVEYANCE SYSTEM.

4. PLAN REVISIONS OR DEVIATION FROM PROPOSED CONSTRUCTION WORK ON THE PLANS MUST BE APPROVED BY STANTEC PRIOR TO THOSE CHANGES BECOMING

5. A COPY OF THE APPROVED CONSTRUCTION PLANS AND EROSION AND SEDIMENTATION CONTROL PLANS MUST BE ON

6. ALL EXCESS SOIL MATERIALS THAT MUST BE DISPOSED OFF-SITE AT A LICENSED DISPOSAL FACILITY SHOULD NOT BE LOCATED IN ANY WETLANDS, STREAM CHANNEL,

FLOODWAY OR FLOODPLAIN. 7. ALL EXCAVATED SOILS AND CONCRETE RUBBLE MUST BE TRANSPORTED TO WORK AREA #4 IN THE PROPER ALSO BE COVERED WITH A LINER TARP OF THE SAME THICKNESS. ONCE EXCAVATED MATERIALS ARE SAMPLED FOR CONSTITUENTS OF CONCERN, THE SOILS WILL THEN BE HAULED OFFSITE TO THE PROPER DISPOSAL FACILITY. NO LINER IS TO BE PLACED OVER THE CONCRETE RUBBLE

NATURAL RESOURCES NOTES

1 NO STATE OR FEDERAL WETLANDS ARE LOCATED WITHIN OR NEAR THE PROJECT'S WORK AREAS DUE TO THE EXISTING INDUSTRIALIZED NATURE OF THE FACILITY.

2. THE PORTION OF THE WILMINGTON MAINTENANCE FACILITY PROPERTY THAT IS SHOWN ON PROJECT PLANS IS ENTIRELY LOCATED WITHIN THE 100 YEAR FLOOD ZONE AS MAPPED BY FEMA.

OWNER'S CERTIFICATION

I. THE UNDERSIGNED, CERTIFY THAT ALL LAND CLEARING, CONSTRUCTION AND DEVELOPMENT SHALL BE DONE PURSUANT TO THE APPROVED PLAN AND THAT RESPONSIBLE PERSONNEL (I.E., BLUE CARD HOLDER) INVOLVED IN THE LAND DISTURBANCE WILL HAVE A CERTIFICATION OF TRAINING PRIOR TO INITIATION OF THE PROJECT, AT A DNREC SPONSORED OR APPROVED TRAINING COURSE FOR THE CONTROL OF EROSION AND SEDIMENT DURING CONSTRUCTION. IN ADDITION, I GRANT THE DNREC SEDIMENT AND STORMWATER PROGRAM AND/OR THE RELEVANT DELEGATED AGENCY THE RIGHT TO CONDUCT ON-SITE REVIEWS, AND I UNDERSTAND MY RESPONSIBILITIES UNDER THE NPDES CONSTRUCTION GENERAL PERMIT, AS REFERENCED ON THIS COVERSHEET.

GEORGE DUTTON AMTRAK 4001 VANDEVER AVE WILMINGTON, DE 19802 PHONE: 302-429-6245

SITE DESIGNER CERTIFICATION:

I, HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED UNDER MY SUPERVISION AND TO THE BEST OF MY KNOWLEDGE COMPLIES WITH THE APPLICABLE STATE AND LOCAL REGULATIONS AND ORDINANCES:

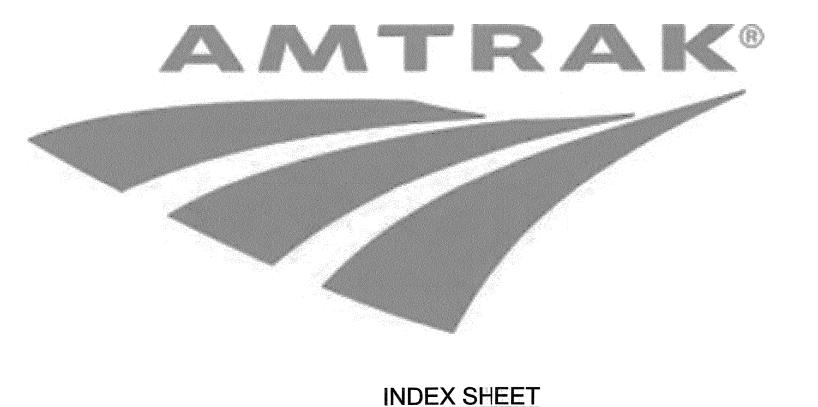
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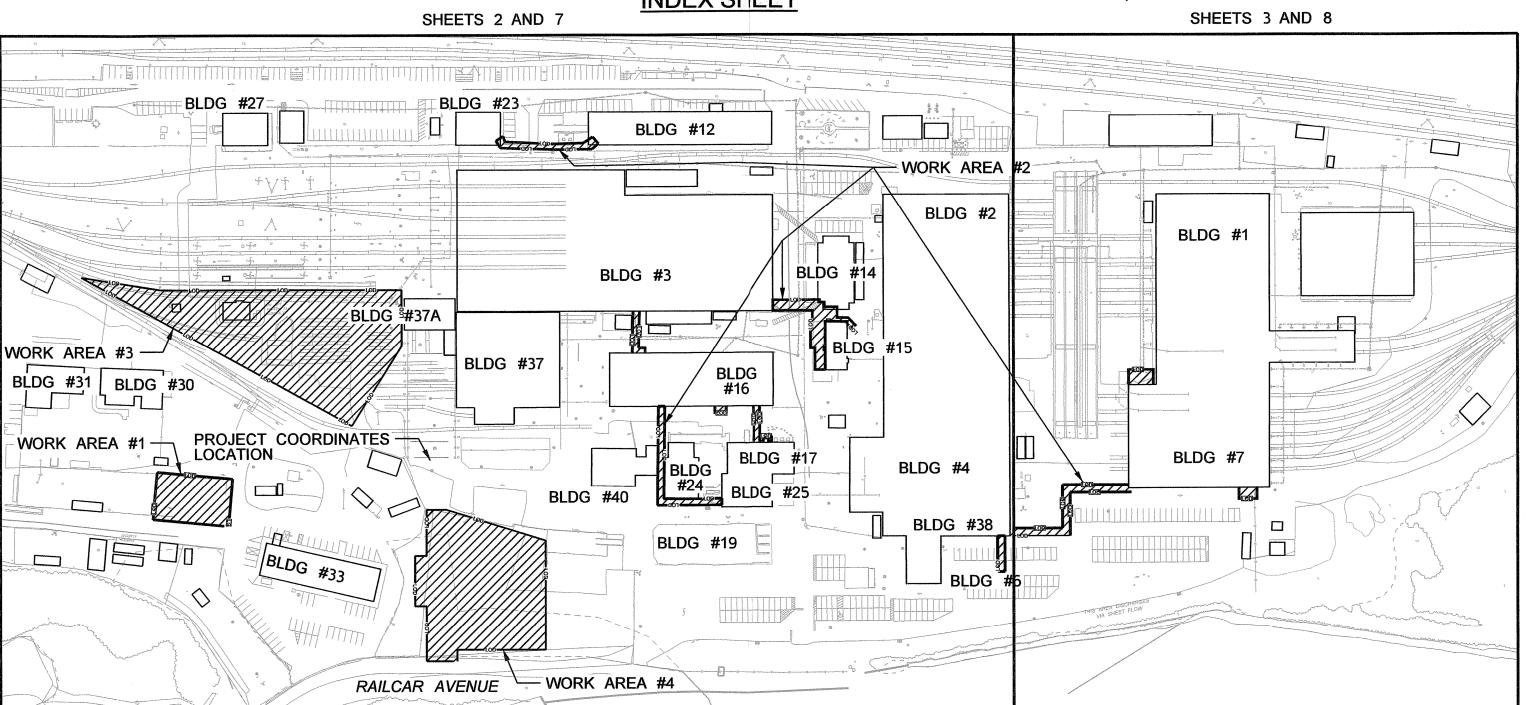
ALEXANDER J. DENADAI, P.E., # 20160 STANTEC CONSULTING SERVICES, INC. 1060 ANDREW DRIVE, SUITE 140 WEST CHESTER, PA 19380 PHONE: 610-840-2550

2/2015 (SPACE: 2134020



WILMINGTON MAINTENANCE FACILITY FACILITIES AND INFRASTRUCTURE IMPROVEMENT PROJECTS SEDIMENT AND STORMWATER MANAGEMENT PLANS BRANDYWINE HUNDRED BRANDYWINE-CHRISTINA WATERSHED TAX PARCELS 2603700013 AND 2603000064 CITY OF WILMINGTON NEW CASTLE COUNTY, DELAWARE





SHEET KEY MAP SCALE: 1" = 150'

PROJECT NOTES

1. TAX MAP ID: GRID #11403561 2. DNREC SEDIMENT AND STORMWATER PROGRAM #2015-061.

3. SITE ADDRESS: 4001 VANDEVER AVE. WILMINGTON, DE 19802. 4. WORK AREA COORDINATES (SHED BETWEEN WORK AREAS #3 AND #4):

39.745769 LATITUDE, -75.521419 LONGITUDE.

5. EXISTING SITE AREA - PARCEL =36.28 ACRES, ENTIRE FACILITY=104.44 ACRES.

6. PROPOSED PROJECT AREA DISTURBANCE: 2.7 ACRES TOTAL LOD. 7. WETLANDS: NO JURISDICTIONAL WETLANDS ON PARCEL OR WITHIN/NEAR LOD.

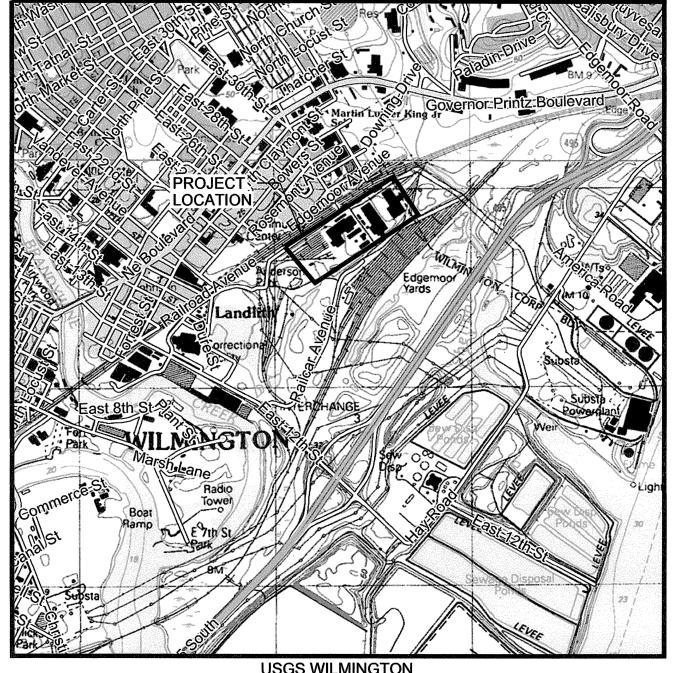
8. PROPOSED DISCHARGE LOCATIONS: NO STORMWATER DISCHARGE POINTS VIA NEW OUTFALLS. WORK AREAS TO BE DEWATERED AND TREATED VIA PROCESS SHOWN ON SHEETS 12 AND 13.

INFRASTRUCTURE WORK AREAS

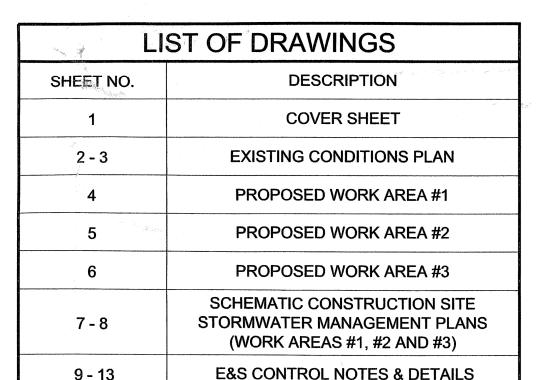
AREA #1 - CAR SHOP 1 BUILDING RELOCATION AREA #2 - STEAM AND COMPRESSED AIR OPTIMIZATION IMPROVEMENT AREA AREA #3 - ACS-64 LOCOMOTIVE TEST AND DIAGNOSTIC CENTER

AREA #4 - SOIL AND RUBBLE HANDLING AREA

No.: 2615 -060 12/22/



USGS WILMINGTON SOUTH DELAWARE



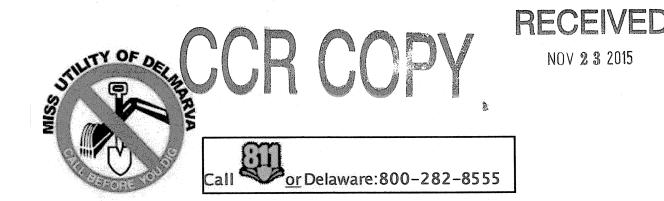
MISS UTILITY OF DELMARVA

AS PRESCRIBED BY DELAWARE TITLE 26, CHAPTER 8, STANTEC HAS CONTACTED THE UTILITIES SERVICE PROTECTION CENTER OF DELMARVA, INC. (USPCD), KNOWN AS "MISS UTILITY OF DELMARVA" ON JUNE 16, 2015 AND OBTAINED "NOTICE OF INTENT TO EXCAVATE" DESIGNER TICKETS FOR THE FUTURE EXCAVATION ACTIVITIES RELATED TO THE PROPOSED CONSTRUCTION WORK SHOWN ON THESE PLANS. STANTEC DESIGNER TICKET NUMBERS INCLUDE THE FOLLOWING:

TICKET NO: 151670030

IT IS THE DUTY OF THE EXCAVATOR COMPLETING THE EXCAVATION WORK SHOWN ON THESE PLANS TO "NOTIFY THE APPROVED NOTIFICATION CENTER NOT LESS THAN 3 WORKING DAYS, BUT NO MORE THAN 10 WORKING DAYS, PRIOR TO THE EXCAVATION OR DEMOLITION ACTIVITIES." THIS NOTIFICATION SHOULD BE COMPLETED BY THE EXCAVATOR CALLING "MISS UTILITY OF DELMARVA" AT 800-282-8555 AND REQUESTING THAT ALL UTILITY LINES BE MARKED IN THE FIELD ON THE PROJECT SITE AND THAT MAPPING BE PROVIDED PRIOR TO ALL EXCAVATION WORK.

STANTEC DOES NOT MAKE ANY REPRESENTATION, WARRANTY, ASSURANCE OR GUARANTEE THAT THE INFORMATION RECEIVED PURSUANT TO THE SAID NOTICE OF INTENT TO EXCAVATE REQUEST OR WHAT IS REFLECTED ON THESE DRAWINGS IS CORRECT OR ACCURATE, BUT STANTEC IS REFLECTING THAT THE NOTICE OF INTENT TO EXCAVATE ON A DESIGN LEVEL HAS BEEN REPORTED. LISTS OF UTILITY COMPANY MEMBERS THAT HAVE BEEN NOTIFIED ARE AVAILABLE THROUGH REFERENCING THE TICKET NUMBERS LISTED ABOVE.







THIS DOCUMENT WAS PREPARED BY: STANTEC

AMTRAK

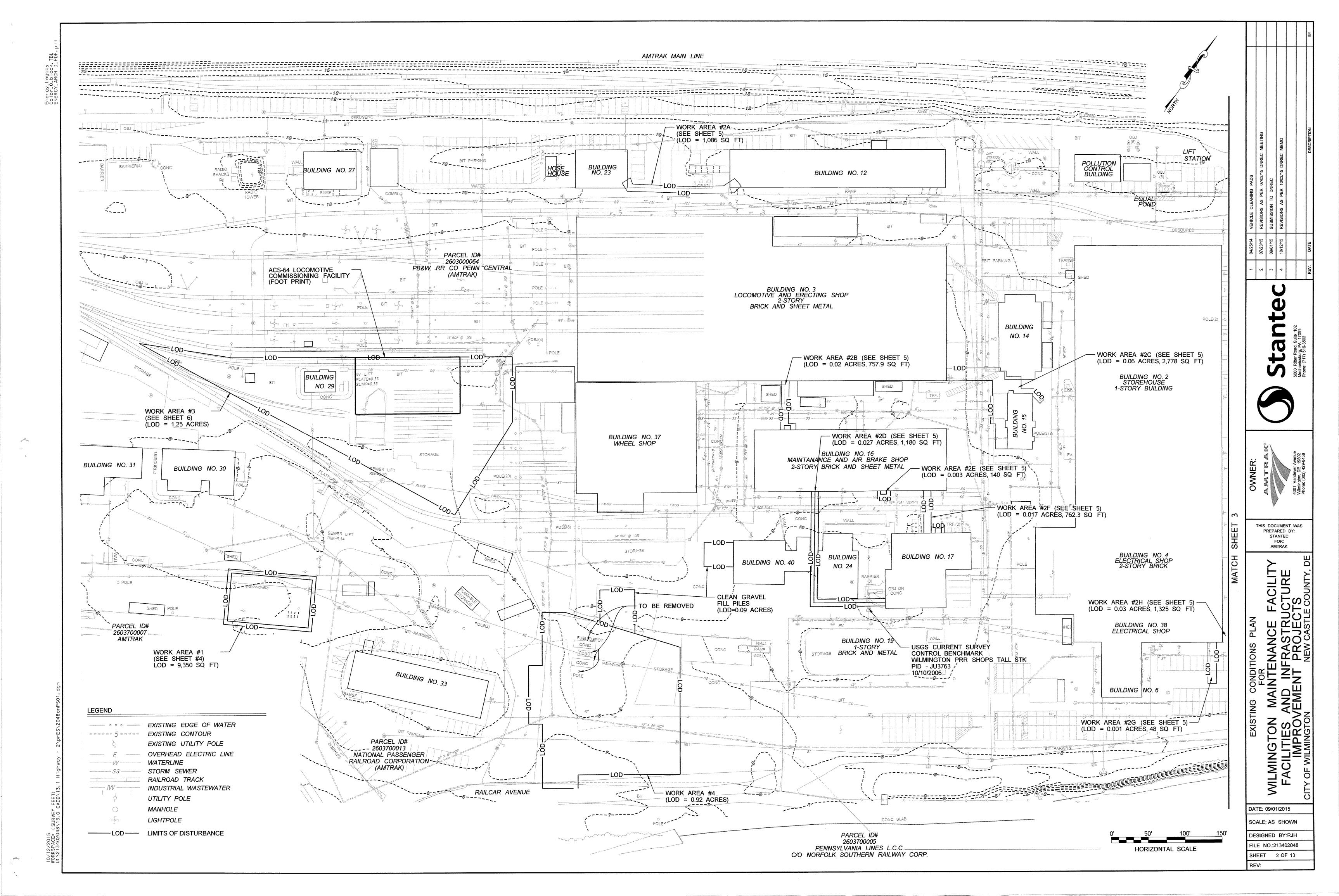
O HITS NAI: PRA

FACILITIES IMPRO

DATE: 09/01/2015 SCALE: AS SHOWN DESIGNED BY:RJH

FILE NO.:213402048

SHEET 1 OF 13



AMTRAK MAIN LINE ROADWAY EQUIPMENT TRAINING CENTER PARCEL ID# 2603000064
PB&W RR CO PENN CENTRAL
(AMTRAK) Town and the second sec POLE O , The same of BUILDING NO.7 EQUIPMENT REPAIR SHOP 1-STORY BRICK AND SHEET METAL 57= - WORK AREA #2I (SEE SHEET 5) (LOD = 0.003 ACRES, 140 SQ FT) BIT PARKING STORAGE WORK AREA #2H (SEE SHEET 5) (LOD = 0.03 ACRES, 1,325 SQ FT) PARCEL ID# 2603700005
PENNSYLVANIA LINES L.C.C.
C/O NORFOLK SOUTHERN RAILWAY CORP. HORIZONTAL SCALE

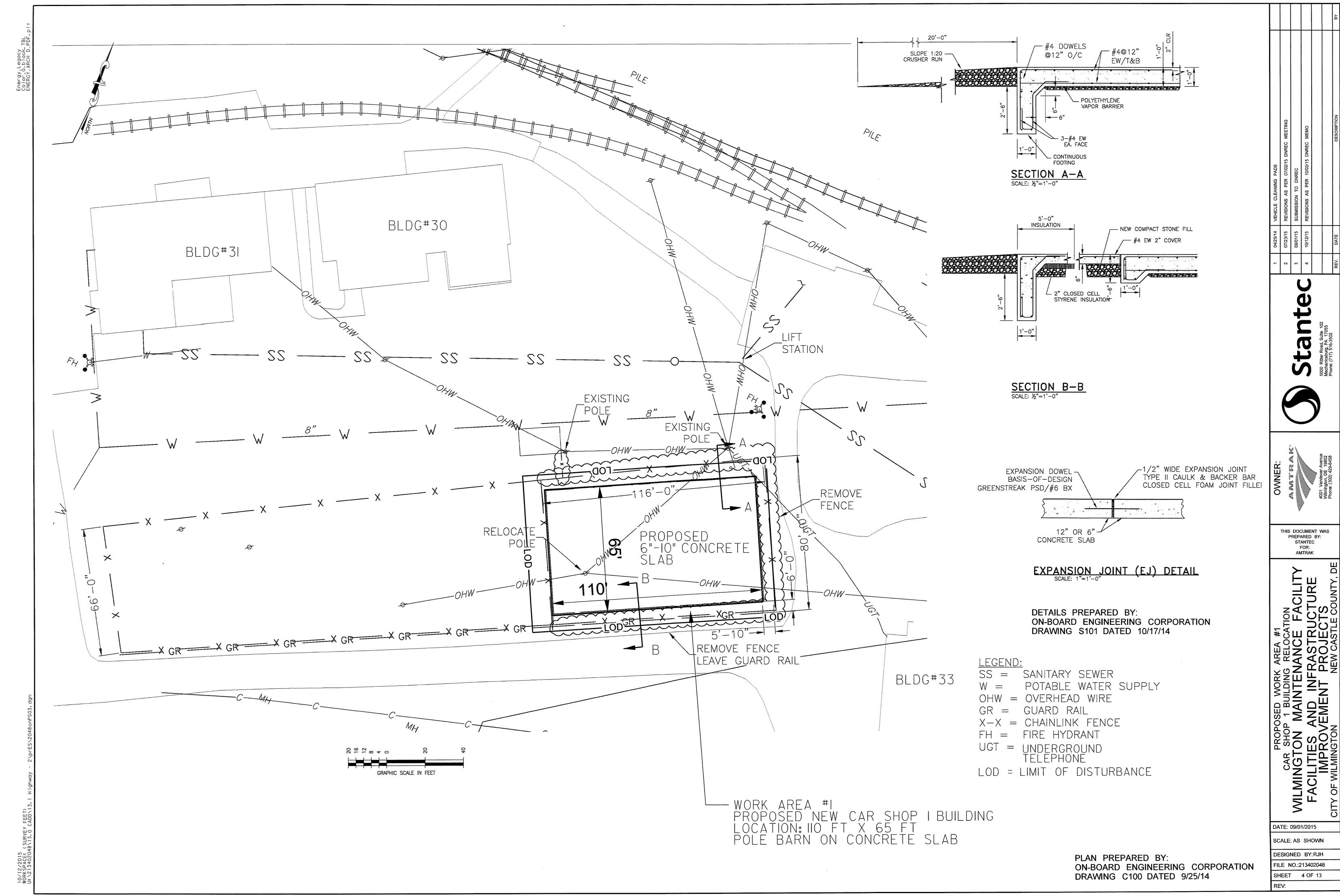
LEGEND ----- • • • • --- EXISTING EDGE OF WATER EXISTING CONTOUR EXISTING UTILITY POLE OVERHEAD ELECTRIC LINE WATERLINE STORM SEWER RAILROAD TRACK INDUSTRIAL WASTEWATER UTILITY POLE MANHOLE LIGHTPOLE -----LOD---- LIMITS OF DISTURBANCE

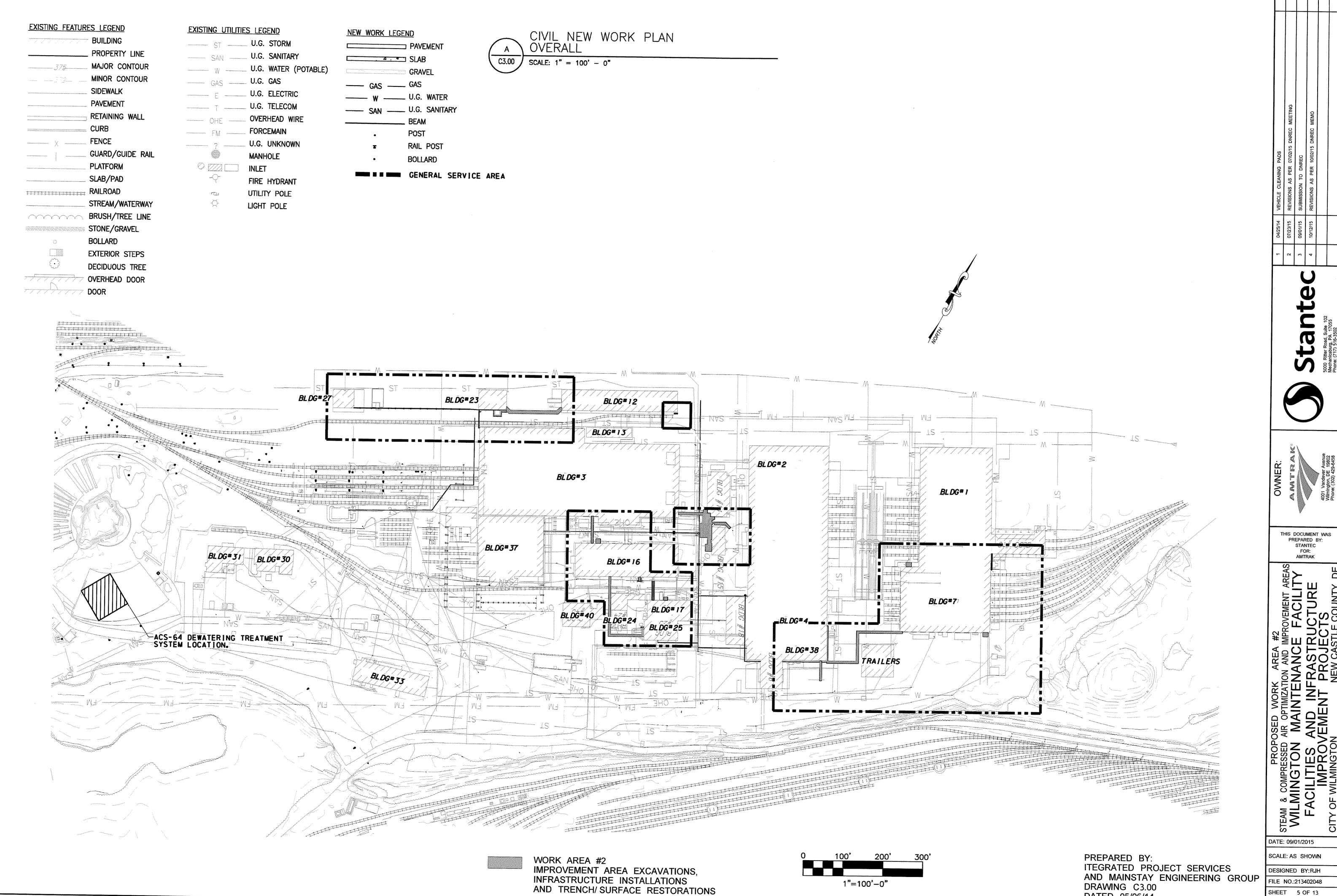
DATE: 09/01/2015 SCALE: AS SHOWN

DESIGNED BY:RJH FILE NO.:213402048 SHEET 3 OF 13

THIS DOCUMENT WAS PREPARED BY:

STANTEC AMTRAK







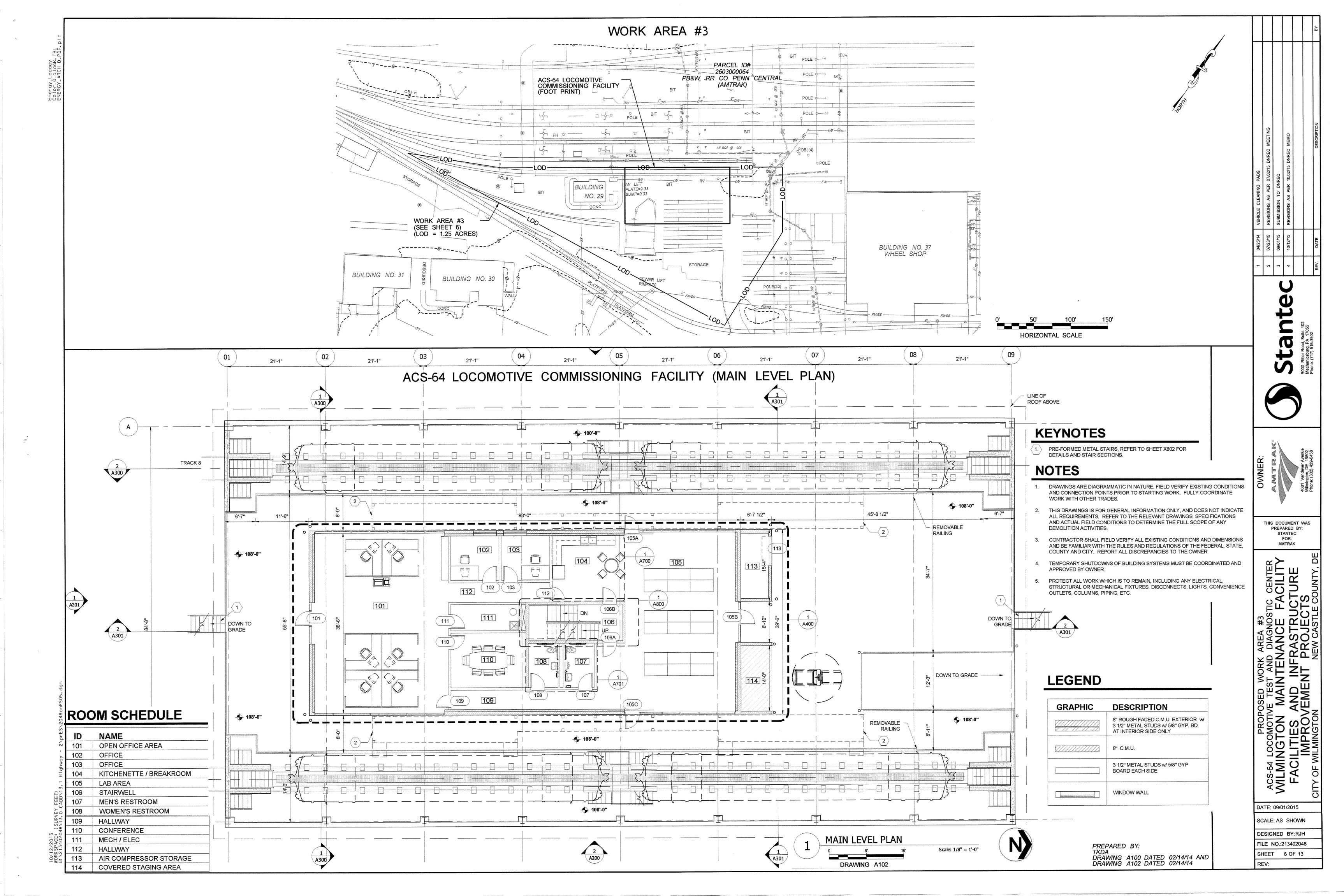
THIS DOCUMENT WAS PREPARED BY: STANTEC FOR:

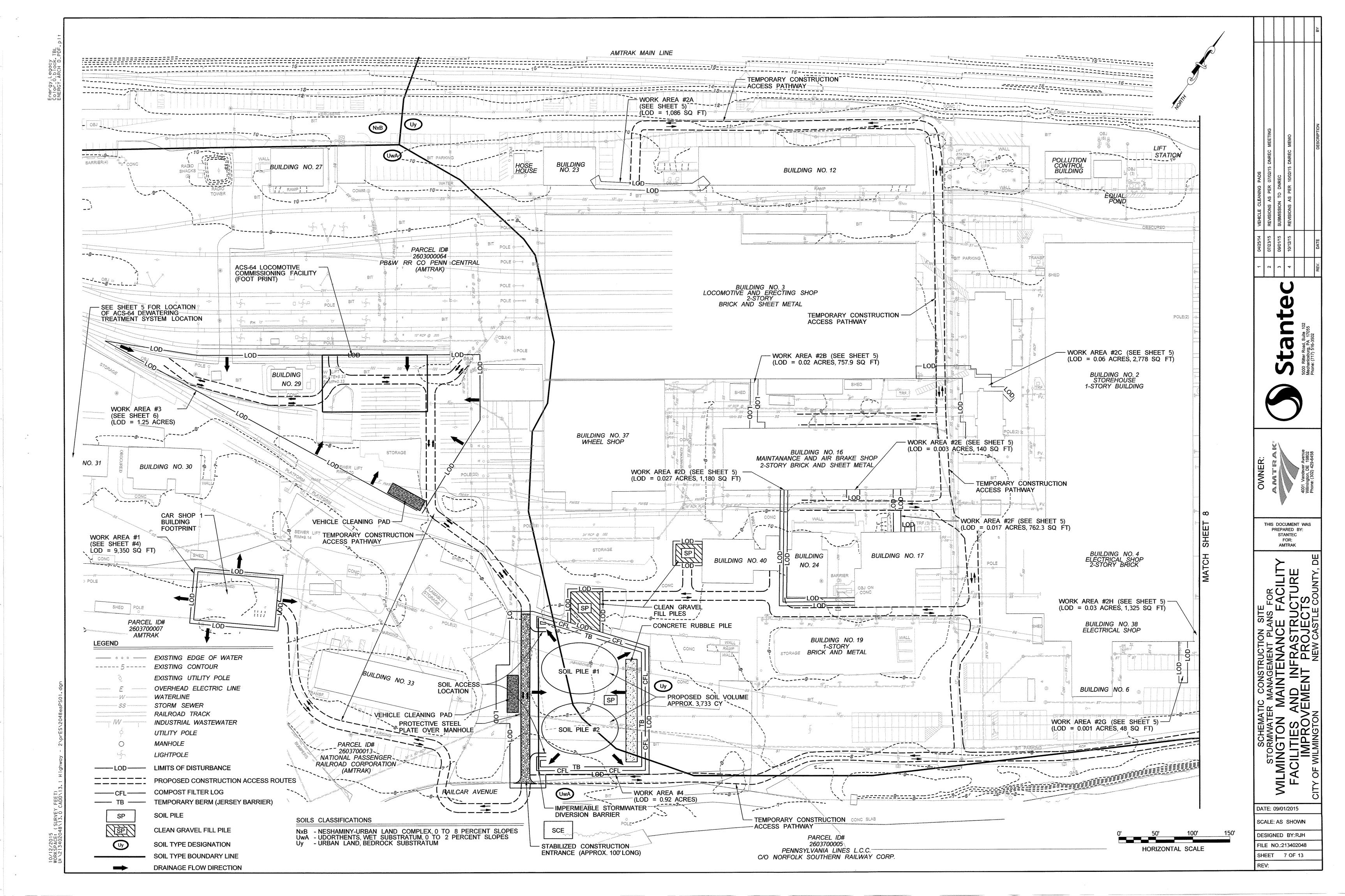
AMTRAK

DATE: 09/01/2015 SCALE: AS SHOWN

DESIGNED BY:RJH FILE NO.:213402048 SHEET 5 OF 13

DATED 05/06/14





AMTRAK MAIN LINE BUILDING NO. 11 ROADWAY EQUIPMENT TRAINING CENTER PARCEL ID# 2603000064 PB&W RR CO PENN CENTRAL (AMTRAK) 5.10----Uy --- WORK AREA #2J (SEE SHEET 5) (LOD = 0.003 ACRES, 130.5 SQ FT)- Turky BUILDING NO.7 EQUIPMENT REPAIR SHOP 1-STORY BRICK AND SHEET METAL - WORK AREA #21 (SEE SHEET 5) (LOD = 0.003 ACRES, 140 SQ FT) LOD---BIT PARKING WORK AREA #2H (SEE SHEET 5) (LOD = 0.03 ACRES, 1,325 SQ FT) **LEGEND** ---- • • • • --- EXISTING EDGE OF WATER EXISTING CONTOUR EXISTING UTILITY POLE OVERHEAD ELECTRIC LINE WATERLINE STORM SEWER PARCEL ID# 2603700005
PENNSYLVANIA LINES L.C.C.
C/O NORFOLK SOUTHERN RAILWAY CORP. RAILROAD TRACK INDUSTRIAL WASTEWATER UTILITY POLE MANHOLE LIGHTPOLE LIMITS OF DISTURBANCE PROPOSED CONSTRUCTION ACCESS ROUTES COMPOST FILTER SOCK TEMPORARY BERM (JERSEY BARRIER) SOIL PILE SP

SOIL TYPE DESIGNATION SOIL TYPE BOUNDARY LINE

THIS DOCUMENT WAS STANTEC

PREPARED BY: AMTRAK

SCHE STORMWA WILMINGTO FACILITIES IMPRO INPRO DATE: 09/01/2015

SCALE: AS SHOWN

DESIGNED BY:RJH FILE NO.:213402048 SHEET 8 OF 13

HORIZONTAL SCALE

EROSION & SEDIMENTATION CONTROL NOTES

- A. GENERAL EROSION AND SEDIMENT CONTROL GUIDELINES
- CONTRACTOR'S RESPONSIBILITIES: A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE KEPT AVAILABLE FOR INSPECTION AT THE CONSTRUCTION SITE AT ALL TIMES. THE INTENT OF THIS PLAN/NARRATIVE IS TO INDICATE GENERAL MEANS OF COMPLIANCE WITH THE REQUIREMENTS OF THE RULES AND REGULATIONS OF DNREC IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO IMPLEMENT THESE METHODS PLUS ADDITIONAL METHODS AS MAY BE NECESSITATED BY THE CONDITIONS CREATED BY LOCALIZED SITE CONDITIONS, AND/OR CONSTRUCTION PROCEDURES IN ORDER TO ASSURE COMPLIANCE WITH APPLICABLE LAW. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL SEDIMENT AND EROSION CONTROL FACILITIES SO THAT THEY PERFORM AS REQUIRED BY LAW.
- 2. THE DNREC SEDIMENT AND STORMWATER PROGRAM MUST BE NOTIFIED IN WRITING FIVE (5) DAYS PRIOR TO COMMENCING WITH CONSTRUCTION, FAILURE TO DO SO CONSTITUTES A VIOLATION OF THE APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLAN.
- REVIEW AND OR APPROVAL OF THE SEDIMENT AND STORMWATER MANAGEMENT PLAN SHALL NOT RELIEVE THE CONTRACTOR FROM HIS OR HER RESPONSIBILITIES FOR COMPLIANCE WITH THE REQUIREMENTS OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS, NOR SHALL IT RELIEVE THE CONTRACTOR FROM ERRORS OR OMISSIONS IN THE APPROVED PLAN.
- 4. IF THE APPROVED PLAN NEEDS TO BE MODIFIED, ADDITIONAL SEDIMENT AND STORMWATER CONTROL MEASURES MAY BE REQUIRED AS DEFMED NECESSARY BY DNREC OR THE DELEGATED AGENCY.
- 5. FOLLOWING SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED FOR ALL PERIMETER SEDIMENT CONTROLS, SOIL STOCKPILES, AND ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE WITHIN 14 CALENDAR DAYS UNLESS MORE RESTRICTIVE FEDERAL REQUIREMENTS APPLY.
- 6. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL COMPLY WITH THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK,
- 7. AT ANY TIME A DEWATERING OPERATION IS USED, IT SHALL BE PREVIOUSLY APPROVED BY THE AGENCY CONSTRUCTION SITE REVIEWER FOR A NON-EROSIVE POINT OF DISCHARGE, AND A DEWATERING PERMIT SHALL BE APPROVED BY THE DNREC WELL PERMITTING BRANCH.
- 8. APPROVED PLANS REMAIN VALID FOR 3 YEARS FROM THE DATE OF **APPROVAL**
- APPROVAL OF A SEDIMENT AND STORMWATER MANAGEMENT PLAN DOES NOT GRANT OR IMPLY A RIGHT TO DISCHARGE STORMWATER RUNOFF, THE OWNER/DEVELOPER IS RESPONSIBLE FOR ACQUIRING ANY AND ALL AGREEMENTS, EASEMENTS, ETC., NECESSARY TO COMPLY WITH STATE DRAINAGE AND OTHER APPLICABLE LAWS.
- 10. THE OWNER SHALL BE FAMILIAR WITH AND COMPLY WITH ALL ASPECTS OF THE NPDES CONSTRUCTION GENERAL PERMIT ASSOCIATED WITH THE PROJECT, INCLUDING, BUT NOT LIMITED TO, PERFORMING WEEKLY SITE INSPECTIONS DURING CONSTRUCTION AND AFTER RAIN EVENTS, AND MAINTAINING WRITTEN LOGS OF THESE INSPECTIONS.
- 11. BEFORE ANY EARTHWORK OR EXCAVATION TAKES PLACE, THE CONTRACTOR SHALL CALL MISS UTILITY AT 811 OR 1.800.282.8555 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION, TO HAVE ALL EXISTING UTILITIES MARKED ONSITE.
- 12. THE CONTRACTOR SHALL AT ALL TIMES PROTECT AGAINST SEDIMENT OR DEBRIS LADEN RUNOFF OR WIND FROM LEAVING THE SITE. PERIMETER CONTROLS SHALL BE CHECKED DAILY AND ADJUSTED AND/OR REPAIRED TO FULLY CONTAIN AND CONTROL SEDIMENT FROM LEAVING THE SITE ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED HALF OF THE EFFECTIVE CAPACITY OF THE CONTROL. IN ADDITION THE CONTRACTOR MAY NEED TO ADJUST OR ALTER MEASURES IN TIMES OF ADVERSE WEATHER CONDITIONS, OR AS DIRECTED BY THE AGENCY CONSTRUCTION SITE REVIEWER.
- 13. BEST AVAILABLE TECHNOLOGY (BAT) SHALL BE EMPLOYED TO MANAGE TURBID DISCHARGES IN ACCORDANCE WITH REQUIREMENTS OF 7. DEL C. CH 60, REGULATIONS GOVERNING THE CONTROL OF WATER POLLUTION, SECTION 9.1.02, KNOWN AS SPECIAL CONDITIONS FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES. AND DEPARTMENT POLICIES, PROCEDURES, AND GUIDANCE.
- 14 DOCUMENTATION OF SOIL TESTING AND MATERIALS USED FOR TEMPORARY OR PERMANENT STABILIZATION INCLUDING BUT NOT LIMITED TO SOIL TEST RESULTS, SEED TAGS, SOIL AMENDMENT TAGS, ETC. SHALL BE PROVIDED TO THE DEPARTMENT OR DELEGATED AGENCY TO VERIFY THAT THE PERMANENT OR TEMPORARY STABILIZATION HAS BEEN COMPLETED IN ACCORDANCE WITH THE APPROVED PLAN. THE DEPARTMENT OR DELEGATED AGENCY MAY REQUIRE ADDITIONAL SOIL TESTING AND REAPPLICATION OF PERMANENT OR TEMPORARY STABILIZATION IN ACCORDANCE WITH SPECIFICATIONS PROVIDED IN THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK, OR ALTERNATIVE MEASURES THAT PROVIDE FUNCTIONAL EQUIVALENCY.
- B. GENERAL SEDIMENT AND EROSION CONTROL METHODS/PROCEDURES
- IN ALL CASES, THE SMALLEST PRACTICAL AREA OF STABLE LAND SURFACE SHALL BE DISTURBED. FACILITIES AND INFRASTRUCTURE IMPROVEMENTS IN WORK AREAS #1, #2 AND #3 MAY BE CONDUCTED SEQUENTIALLY IN ORDER, BUT MAY ALSO BE COMPLETED SIMULTANEOUSLY AS DIRECTED BY AMTRAK.
- 2. ALL RELATED SEDIMENT AND EROSION CONTROL FACILITIES SHALL BE IN PLACE AND FUNCTIONING AS INTENDED PRIOR TO EARTH MOVING ACTIVITY WITHIN THE CONTRIBUTING WATERSHED AREAS.
- 3. EXCAVATED MATERIAL (SOIL) SHALL BE PLACED IN DESIGNATED AREAS.
- 4. SOIL PILE HEIGHTS MUST NOT EXCEED 15 FEET AND SLOPES MUST BE 2:1 OR FLATTER.
- 5. FOLLOWING DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 14 CALENDAR DAYS FOR THE SURFACE OF ALL PERIMETER SEDIMENT CONTROLS AND ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE. SEEDING AND MULCHING SHOULD BE COMPLETED PER SPECIFICATIONS. IN THIS INDUSTRIAL AREA RETURNING TO PRE-EXISTING COMPACTED GRAVEL. ASPHALT OR CONCRETE COVER CONDITIONS IS REQUIRED AS SPECIFIED.
- 6. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY WETLAND OR WATER COURSE BY USE OF A SEDIMENT FILTER STRUCTURE.

EROSION & SEDIMENTATION CONTROL NOTES

- 7. CONSTRUCTION ACCESS INTO UNPAVED AREAS FROM PAVED AREAS SHALL BE VIA THE STABILIZED CONSTRUCTION ENTRANCE AND THE EXISTING STABILIZED CONSTRUCTION ACCESS ROUTES.
- SEDIMENT SPILLED DROPPED OR TRACKED ONTO PAVED SURFACES SHALL BE REMOVED IMMEDIATELY.
- C. MAINTENANCE OF SEDIMENT AND EROSION CONTROL FACILITIES
- 1. ALL SEDIMENT AND EROSION CONTROL FACILITIES SHALL BE MAINTAINED BY THE CONTRACTOR IN OPERATING CONDITION UNTIL REPLACEMENT AREA IS STABILIZED WITH FINAL GROUND COVER (COMPACTED GRAVEL OR CONCRETE COVER).
- 2. IT SHALL BE THE RESPONSIBILITY OF AMTRAK AND THE GENERAL CONTRACTOR TO MAINTAIN AND REPAIR ALL EROSION AND SEDIMENT CONTROL AND STORMWATER MANAGEMENT PRACTICES DURING ANY UTILITY INSTALLATION.
- DURING ALL PLAN REVIEW AND APPROVAL PROCESSES IT SHALL BE THE RESPONSIBILITY OF AMTRAK AND ITS GENERAL CONTRACTOR TO MAINTAIN FACILITIES AND PRACTICES TO CONTROL EROSION AND SEDIMENTATION ON THE SITE.

CONSTRUCTION SEQUENCE

- 1. NOTIFY DNREC'S SEDIMENT AND STORMWATER PROGRAM AT LEAST 5 DAYS PRIOR TO THE START OF ANY LAND DISTURBANCE TO SCHEDULE A PRE-CONSTRUCTION MEETING AT (302) 739-9921
- 2. CALL MISS UTILITY AT 1-800-282-8555 AT LEAST 72 HOURS PRIOR TO ANY DISTURBANCE.
- VERIFY CONSTRUCTION ACCESS ROUTES WITH AMTRAK'S ON-SITE SAFETY OFFICER TO MAKE SURE SCHEDULES FOR EQUIPMENT OR LOCOMOTIVE MOVEMENT ARE KNOWN PRIOR TO HAULING EXCAVATED MATERIALS AND MAKE SURE ACCESS ROUTES ARE CLEAR OF FACILITY MATERIALS OR WHEEL ASSEMBLIES.
- CARE SHOULD BE TAKEN BY CONSTRUCTION WORKERS TO LOCATE ALL OVERHEAD UTILITY LINES PRIOR TO WORK AND MAKE SURE THAT ALL RISKS ARE ASSESSED AND WARNING MARKERS PLACED IN FIELD TO AVOID OVERHEAD ELECTRIC LINES SO THAT THE POSSIBILITY OF ARCING IS ELIMINATED BY SAFE EQUIPMENT MANEUVERING.
- SET UP SOIL DEWATERING SYSTEM COMPLETE WITH FRAC TANKS AND CARBON FILTERS AS SPECIFIED IN PLANS (SHEETS 12 AND 13) AT WORK AREAS #1, #2 OR #3, A DEWATERING/WATER TREATMENT PILOT STUDY OPERATIONAL TEST WILL BE PERFORMED PRIOR TO FULL-SCALE OPERATION.
- CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE AS SHOWN ON SHEETS 7 OF 13 AND 11 OF 13 AND PLACE STEEL PLATE OVER ANY MANHOLES FOR PROTECTION AS SHOWN.
- 7. INSTALL ALL EROSION AND SEDIMENTATION CONTROL FACILITIES IN WORK AREA #4 (SOIL HANDLING AREA) PRIOR TO COMPLETING ANY EXCAVATION IN WORK AREAS #1, #2 AND #3. INSTALL INLET PROTECTION FILTER BAGS IN STORMWATER INLETS NEAR WORK AREAS WHERE APPROPRIATE AS PER DETAIL AND NOTES FOUND ON SHEET 11 OF 13.
- INSTALL COMPOST FILTER LOG AROUND PERIMETER OF WORK AREA #4 WITHIN THE PROPOSED LIMIT OF DISTURBANCE LEAVING DEDICATED ACCESS/EGRESS LOCATIONS DEVELOPED FOR CONSTRUCTION EQUIPMENT (SEE SHEET 10 OF 13 DETAIL).
- BRING IN JERSEY BARRIER SECTIONS AND INSTALL CONTAINMENT BARRIER INSIDE OF THE COMPOST FILTER LOG PERIMETER IN WORK AREA #4 TO CONTAIN SOIL LEAVING DEDICATED ACCESS/EGRESS LOCATIONS OPEN FOR CONSTRUCTION EQUIPMENT. CONSTRUCT CONTAINMENT BARRIER AS SPECIFIED (SEE SHEET 10 OF 13 DETAIL). INSTALL IMPERMEABLE STORMWATER DIVERSION BARRIER IN FRONT OF ACCESS/EGRESS ENTRANCE TO SOIL HANDLING AREA.
- 10. INSTALL NON-WOVEN GEOTEXTILE FABRIC AND 10 MIL LINER DOWN ON EXISTING COMPACTED GRAVEL OF WORK AREA #4 WHERE EXCAVATED SOILS WILL BE PLACED. MAKE SURE THAT BOTH NON-WOVEN FABRIC AND LINER CONTINUE OVER CONTAINMENT BARRIERS AND ARE ANCHORED AT THE OUTSIDE OF THE BARRIER WITH SANDBAGS (SEE SHEET 10 OF 13 DETAIL).
- 11. MAKE SURE ALL UTILITIES ARE SHUT OFF AND ARE PROPERLY DECOMMISSIONED BY AMTRAK PRIOR TO ANY DEMOLITION OR EXCAVATION.
- 12. WHEN WORKING IN WORK AREAS #1, #2 OR #3, PROCEED WITH REMOVING CONCRETE AND MACADAM IN AREA SHOWN ON SHEET 7 OF 13. THIS MATERIAL WILL BE TEMPORARILY STORED IN WORK AREA #4.
- 13. WHEN WORKING IN WORK AREA #1, EXCAVATE SOILS TO THE SPECIFIED DEPTH TO ACCOMMODATE SUBBASE FILL AND CONCRETE (SEE SHEET 4 OF 13) FOR FLOATING SLAB. PROCEED WITH SUBBASE FILL AND POURING CONCRETE FOR CAR SHOP 1 BUILDING (POLE BARN) CONSTRUCTION.
- 14. WHEN WORKING IN WORK AREA #2, COMPLETE EXCAVATIONS AS DIRECTED BY AMTRAK IN WORK SUB AREAS #2A THROUGH #2J. INSTALL STEAM AND COMPRESSED AIR OPTIMIZATION UTILITIES AND INFRASTRUCTURE AT EACH WORK STATION AND RESTORE TRENCH WITH PAVEMENT AND CONCRETE ALWAYS SECURE UNFINISHED EXCAVATIONS EACH NIGHT IN EACH WORK SUB AREA UNTIL FINAL GRADE SURFACES ARE REPLACED.
- 15. WITH THE DEWATERING SYSTEM IN FULL OPERATION, EXCAVATE SOILS IN WORK AREA #3 TO SPECIFIED DEPTHS (APPROXIMATELY 8 FEET UNDER PROPOSED ACS-64 BUILDING FOOTPRINT).
- 16. SOILS SHOULD BE HAULED USING SPECIFIED CONSTRUCTION ACCESS ROUTES TO THE APPROPRIATE PLACEMENT LOCATION AT WORK AREA #4.
- 17. REPLACE EXCAVATED SOILS AT WORK AREA #3 AND CONSTRUCT THE ACS-64 LOCOMOTIVE TEST CENTER AND ASSOCIATED INFRASTRUCTURE AS SPECIFIED BY THE DRAWINGS PREPARED BY TKDA DATED 07/09/2014.
- 18. EXCAVATED SOILS FROM WORK AREAS #1, #2 AND #3 ARE TO BE PLACED IN WORK AREA #4. BEING CAREFUL NOT TO TEAR THE LINER (SEE SHEET 10 OF 13 DETAIL). SOIL PILES SHOULD NOT EXCEED 2:1 SLOPES AND SHOULD ALWAYS BE COVERED WITH A 10 MIL LINER TARP AT THE END OF EACH DAY, COMPOST FILTER LOG SHOULD BE FIXED/ MAINTAINED AT EQUIPMENT ACCESS POINTS AT THE END OF EACH DAY AND SECURED PRIOR TO ANY RAIN EVENTS.
- 19. ALL CONSTRUCTION EQUIPMENT MOVING TO OR FROM THE WORK AREA #3 EXCAVATION AREA AND THE SOIL HANDLING AREA; AND, LEAVING THE SITE MUST BE DECONTAMINATED AT THE VEHICLE CLEANING PAD STATION USING PROTOCOLS LISTED ON SHEET 13 OF 13.

CONSTRUCTION SEQUENCE CONTINUED

- 20. ONCE ALL CONTAMINATED SOILS ARE EXCAVATED AND PLACED IN THE APPROPRIATE SOIL PILE, THE 10 MIL LINER TARP SHOULD BE SECURED OVER EACH PILE.
- 21. SOILS, CONCRETE, ASPHALT, ETC, WILL BE LOADED INTO DUMP TRUCKS AND HAULED TO THE APPROVED FACILITIES.
- 22. EROSION AND SEDIMENT CONTROL DEVICES SHOULD BE REMOVED ONLY AFTER WORK IN AN AREA HAS BEEN COMPLETED AND STABILIZED. WITH WRITTEN APPROVAL FROM THE AGENCY CONSTRUCTION SITE REVIEWER.
- 23. AFTER SECURING AUTHORIZATION, THE NON-WOVEN GEOTEXTILE FABRIC AND 10 MIL LINER SHOULD BE REMOVED AND PROPERLY DISPOSED OF; AND, THE CONTAINMENT BARRIER SECTIONS CAN BE REMOVED.
- 24. COMPOST FILTER LOG SHOULD BE REMOVED AND PROPERLY DISPOSED OF AND WORK AREA #4 SHOULD BE RESTORED TO THE PRE-EXISTING COMPACTED GRAVEL SUBSTRATE THAT WAS PRESENT PRIOR TO CONSTRUCTION.
- 25. ANY INLET PROTECTION FILTER BAGS THAT WERE INSTALLED IN STORMWATER INLETS CAN BE REMOVED AND PROPERLY DISPOSED.
- 26. WORK AREA #3 SHOULD BE COMPLETED AS SPECIFIED ON THE AMTRAK CONSTRUCTION DRAWINGS PREPARED BY TKDA ISSUED FOR CONSTRUCTION ON 07/09/2014. FINAL STABILIZATION IN WORK AREA #4 WILL INCLUDE COVERING THE SURFACE WITH CLEAN GRAVEL TO PRE-EXISTING CONDITIONS.
- 27. CONTRACTOR OR AMTRAK EXCAVATOR SHOULD ALWAYS CONSULT WITH THE STANTEC CONSULTING REPRESENTATIVE PROVIDING CONSTRUCTION OVERSIGHT DURING EXCAVATION ACTIVITIES FOR APPROVAL OF ANY NECESSARY UNFORESEEN MODIFICATIONS.

PROJECT NOTES

- TAX MAP ID: GRID #11403561
- DNREC SEDIMENT AND STORMWATER PROGRAM #2015-061.
- SITE ADDRESS: 4001 VANDEVER AVE. WILMINGTON, DE 19802. WORK AREA COORDINATES (SHED BETWEEN WORK AREAS #3 AND
- #4): 39.745769 LATITUDE, -75.521419 LONGITUDE 5. EXISTING SITE AREA - PARCEL =36.28 ACRES, ENTIRE
- FACILITY=104.44 ACRES
- PROPOSED PROJECT AREA DISTURBANCE: 2.7 ACRES TOTAL LOD.
- WETLANDS: NO JURISDICTIONAL WETLANDS ON PARCEL OR WITHIN/NEAR LOD.
- PROPOSED DISCHARGE LOCATIONS: NO STORMWATER DISCHARGE
- POINTS VIA NEW OUTFALLS. WORK AREAS TO BE DEWATERED AND TREATED VIA PROCESS SHOWN ON SHEETS 12 AND 13.

CONSTRUCTION SITE WASTE MANAGEMENT AND SPILL CONTROL

DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK

POLLUTION PREVENTION - SPILL PREVENTION

- 1. FUELING SHOULD ONLY TAKE PLACE IN SIGNED DESIGNATED AREAS, AWAY FROM DOWNSTREAM DRAINAGE FACILITIES AND WATERCOURSES.
- 2. FUELING MUST BE WITH NOZZLES EQUIPPED WITH AUTOMATIC SHUT-OFF TO CONTROL DRIPS. DO NOT TOP OFF.
- 3. PROTECT THE AREAS WHERE EQUIPMENT OR VEHICLES ARE BEING REPAIRED MAINTAINED FUELED OR PARKED FROM STORMWATER RUN-ON AND RUNOFF.
- 4. USE BARRIERS SUCH AS BERMS TO PREVENT STORM WATER RUN-ON AND RUNOFF, AND TO CONTAIN SPILLS.
- 5. PLACE A "FUELING AREA" SIGN NEXT TO EACH FUELING AREA.
- 6. STORE HAZARDOUS MATERIALS SUCH AS FUEL, SOLVENTS, OIL AND CHEMICALS IN SECONDARY CONTAINMENT
- 7. INSPECT VEHICLES AND EQUIPMENT FOR LEAKS ON EACH DAY OF USE. REPAIR FLUID AND OIL LEAKS IMMEDIATELY. 8. ABSORBENT SPILL CLEAN-UP MATERIALS AND SPILL KITS MUST BE AVAILABLE
- IN FUELING AREAS AND ON FUEL TRUCKS. 9. IF FUELING IS TO TAKE PLACE AT NIGHT. MAKE SURE THE FUELING AREA IS
- SUFFICIENTLY ILLUMINATED. 10. PROPERLY DISPOSE OF USED OIL, FLUIDS, LUBRICANTS AND SPILL CLEAN-UP
- CLEAN UP SPILLS
- 1. ALL SPILLS/RELEASES SHOULD BE REPORTED IMMEDIATELY TO AMTRAK'S
- FACILITY ENVIRONMENTAL COORDINATOR. 2. IF IT IS SAFE TO DO SO. IMMEDIATELY CONTAIN AND CLEAN UP ANY
- CHEMICAL AND/OR HAZARDOUS MATERIAL SPILLS. 3. PROPERLY DISPOSE OF USED OIL, FLUIDS, LUBRICANTS AND SPILL CLEAN-UP
- 4. DO NOT BURY SPILLS OR WASH THEM DOWN WITH WATER.

LEAKS AND DRIPS

MATERIALS.

- 1. USE DRIP PANS OR ABSORBENT PADS AT ALL TIMES. PLACE UNDER AND
- AROUND LEAKY EQUIPMENT.
- 2. DO NOT ALLOW OIL, GREASE, FUEL OR CHEMICALS TO DRIP ONTO THE GROUND.
- 3. HAVE SPILL KITS AND CLEAN UP MATERIAL ON-SITE
- 4. REPAIR LEAKY EQUIPMENT PROMPTLY OR REMOVE PROBLEM VEHICLES AND EQUIPMENT FROM THE SITE. CLEAN UP CONTAMINATED SOIL IMMEDIATELY. 5. STORE CONTAMINATED WASTE IN SEALED CONTAINERS CONSTRUCTED OF
- SUITABLE MATERIAL LABEL THESE CONTAINERS PROPERLY. 6. CLEAN UP ALL SPILLS AND LEAKS. PROMPTLY DISPOSE OF WASTE AND SPENT CLEAN UP MATERIALS.

THE CONSTRUCTION SITE POLLUTION PREVENTION PLAN SHOULD INCLUDE THE FOLLOWING ELEMENTS:

1. MATERIAL INVENTORY

DOCUMENT THE STORAGE AND USE OF THE FOLLOWING MATERIALS:

- A. CONCRETE
- B. DETERGENTS C. PAINTS (ENAMEL AND LATEX)
- D. CLEANING SOLVENTS
- E. PESTICIDES F. WOOD SCRAPS
- G. FERTILIZERS H. PETROLEUM BASED PRODUCTS

2. GOOD HOUSEKEEPING PRACTICES

- A. STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB. B. ALL MATERIALS SHALL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR
- ORIGINAL LABELED CONTAINERS AND COVERED.
- C. SUBSTANCES SHALL NOT BE MIXED. D. WHEN POSSIBLE, ALL OF A PRODUCT SHALL BE USED UP PRIOR TO DISPOSAL OF THE CONTAINER.
- E. MANUFACTURERS' INSTRUCTIONS FOR DISPOSAL SHALL BE STRICTLY ADHERED TO. F. THE SITE FOREMAN SHALL DESIGNATE SOMEONE TO INSPECT ALL BMPS DAILY.

3. WASTE MANAGEMENT PRACTICES

- A. ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN SECURELY LIDDED DUMPSTERS IN A LOCATION THAT DOES NOT DRAIN TO A WATERBODY B. WASTE MATERIALS SHALL BE SALVAGED AND/OR RECYCLED WHENEVER POSSIBLE. C. THE DUMPSTERS SHALL BE EMPTIED A MINIMUM OF TWICE PER WEEK, OR MORE IF NECESSARY. THE LICENSED TRASH HAULER IS RESPONSIBLE FOR CLEANING OUT
- DUMPSTERS. D. TRASH SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE DELAWARE
- E. TRASH CANS SHALL BE PLACED AT ALL LUNCH SPOTS AND LITTERING IS STRICTLY PROHIBITED. RECYCLE BINS SHALL BE PLACED NEAR THE CONSTRUCTION TRAILER.

4. EQUIPMENT MAINTENANCE PRACTICES

- A. IF POSSIBLE, EQUIPMENT SHOULD BE TAKEN TO OFF-SITE COMMERCIAL FACILITIES FOR MAINTENANCE. B. DRIP PANS SHALL BE USED FOR ALL EQUIPMENT MAINTENANCE.
- C. EQUIPMENT SHALL BE INSPECTED FOR LEAKS ON A DAILY BASIS. D. WASHOUT FROM CONCRETE TRUCKS SHALL BE DISPOSED OF IN A TEMPORARY PIT
- FOR HARDENING AND PROPER DISPOSAL. E. FUEL NOZZLES SHALL BE EQUIPPED WITH AUTOMATIC SHUT-OFF VALVES.
- F. ALL USED PRODUCTS SUCH AS OIL, ANTIFREEZE, SOLVENTS AND TIRES SHALL BE DISPOSED OF IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS AND LOCAL, STATE AND

5. SPILL PREVENTION PRACTICES

FEDERAL LAWS AND REGULATIONS.

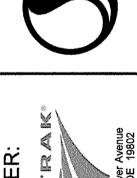
- A. POTENTIAL SPILL AREAS SHALL BE IDENTIFIED AND CONTAINED IN COVERED AREAS WITH NO CONNECTION TO THE STORM DRAIN SYSTEM.
- B. WARNING SIGNS SHALL BE POSTED IN HAZARDOUS MATERIAL STORAGE AREAS. C. PREVENTIVE MAINTENANCE SHALL BE PERFORMED ON ALL TANKS, VALVES, PUMPS,
- PIPES AND OTHER EQUIPMENT AS NECESSARY. D. LOW OR NON-TOXIC SUBSTANCES SHALL BE PRIORITIZED FOR USE. E. CONTACT INFORMATION FOR REPORTING SPILLS THROUGH THE DNREC 24-HOUR TOLL FREE NUMBER SHALL BE PROMINENTLY POSTED.

6. EDUCATION

A BEST MANAGEMENT PRACTICES FOR CONSTRUCTION SITE POLLUTION CONTROL SHALL BE A PART OF REGULAR PROGRESS MEETINGS.

B. INFORMATION REGARDING WASTE MANAGEMENT, EQUIPMENT MAINTENANCE AND SPILL PREVENTION SHALL BE PROMINENTLY POSTED IN THE CONSTRUCTION TRAILER.

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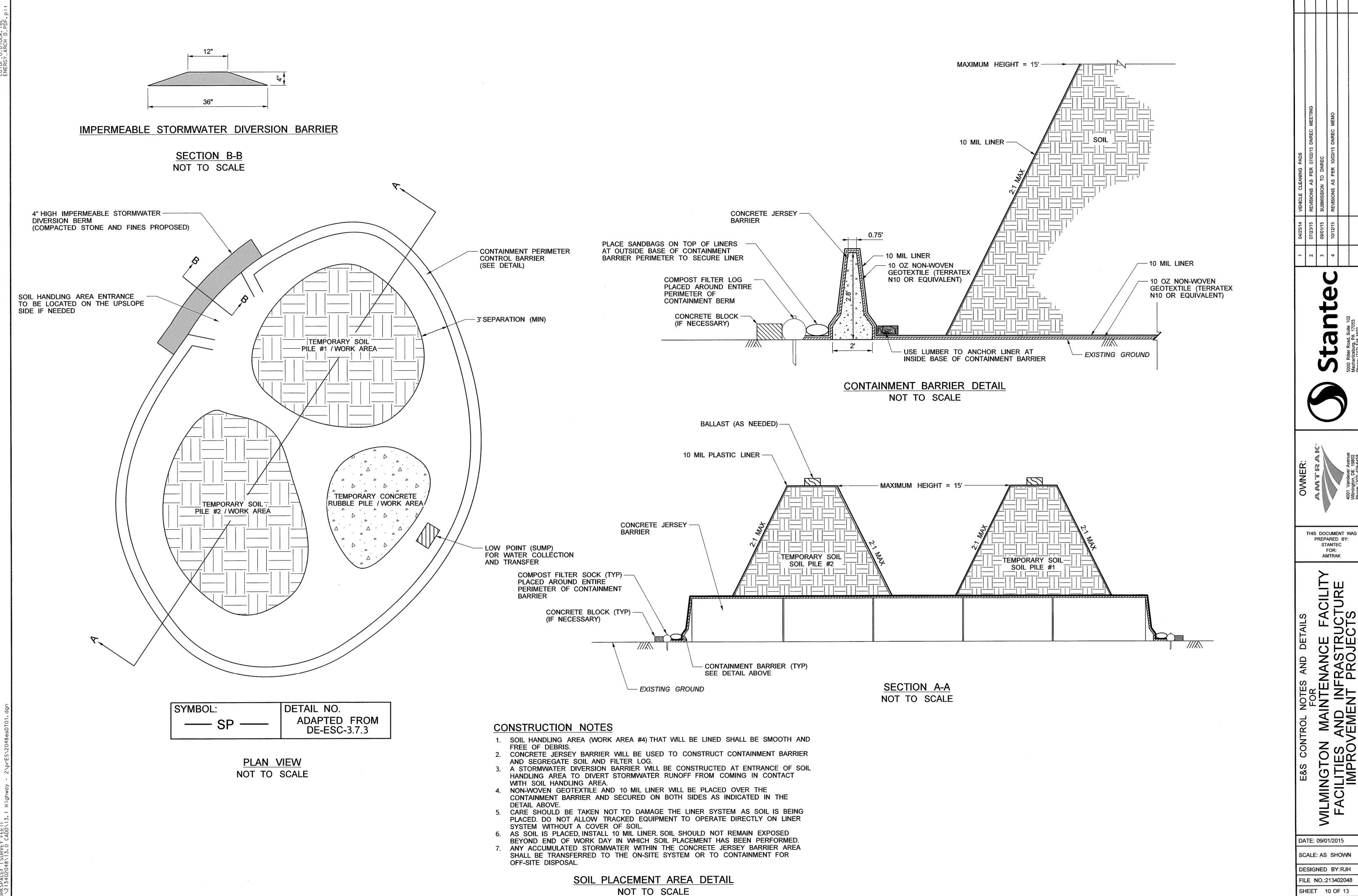
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DATE: 09/01/2015 SCALE: AS SHOWN

FILE NO.:213402048 SHEET 9 OF 13

DESIGNED BY:RJH



SCALE: AS SHOWN DESIGNED BY:RJH

FILE NO.:213402048 SHEET 10 OF 13

PREPARED BY:

AMTRAK

CILIT 'URE

REV:



Adapted from

MD Stds & Specs for ESC &

Filtrexx™ International

Standard Detail & Specifications Compost filter Log

DE-ESC-3.1.7

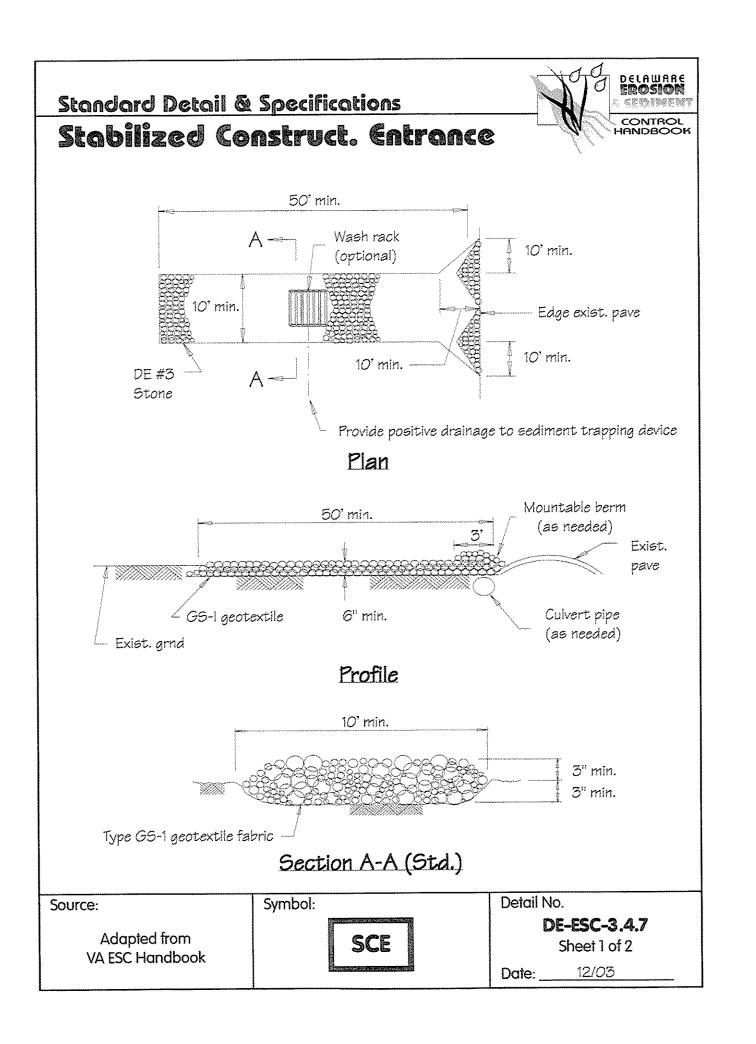
Sheet 1 of 2

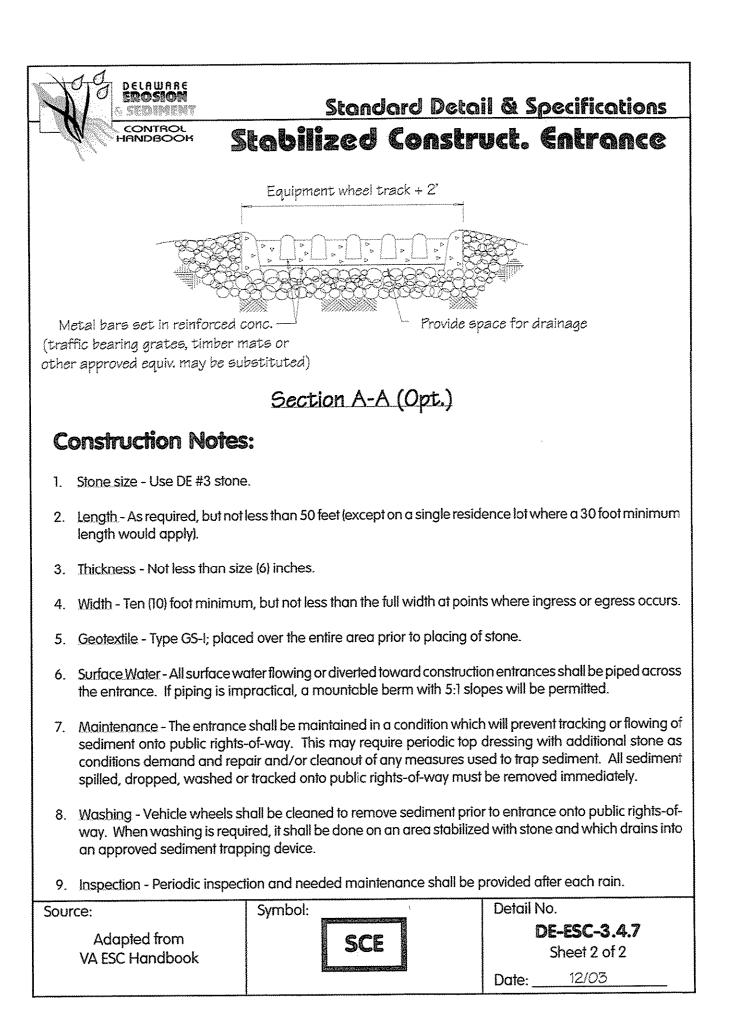
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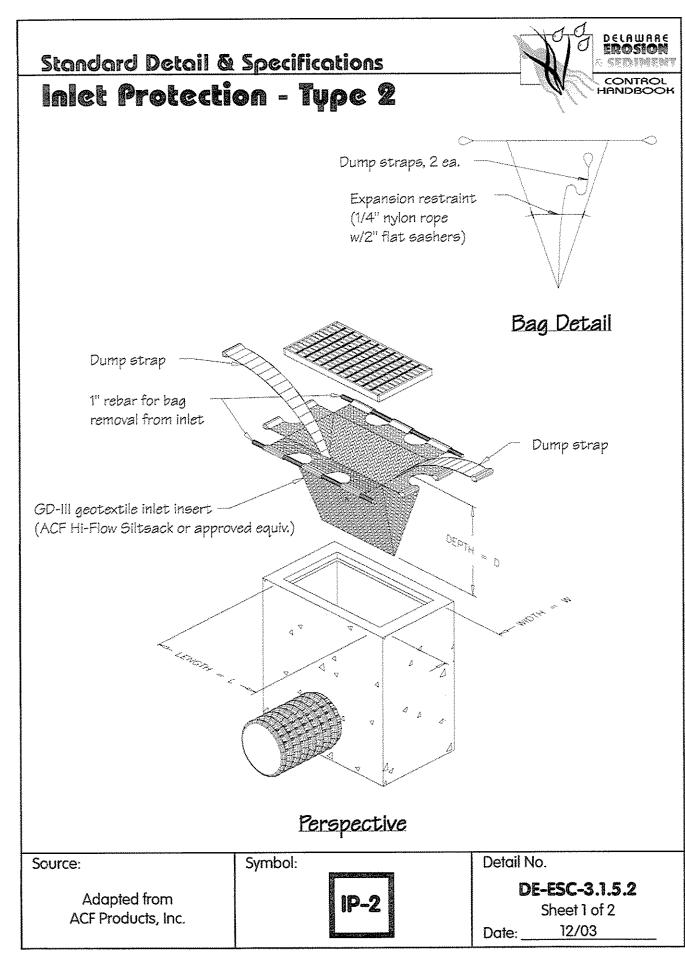
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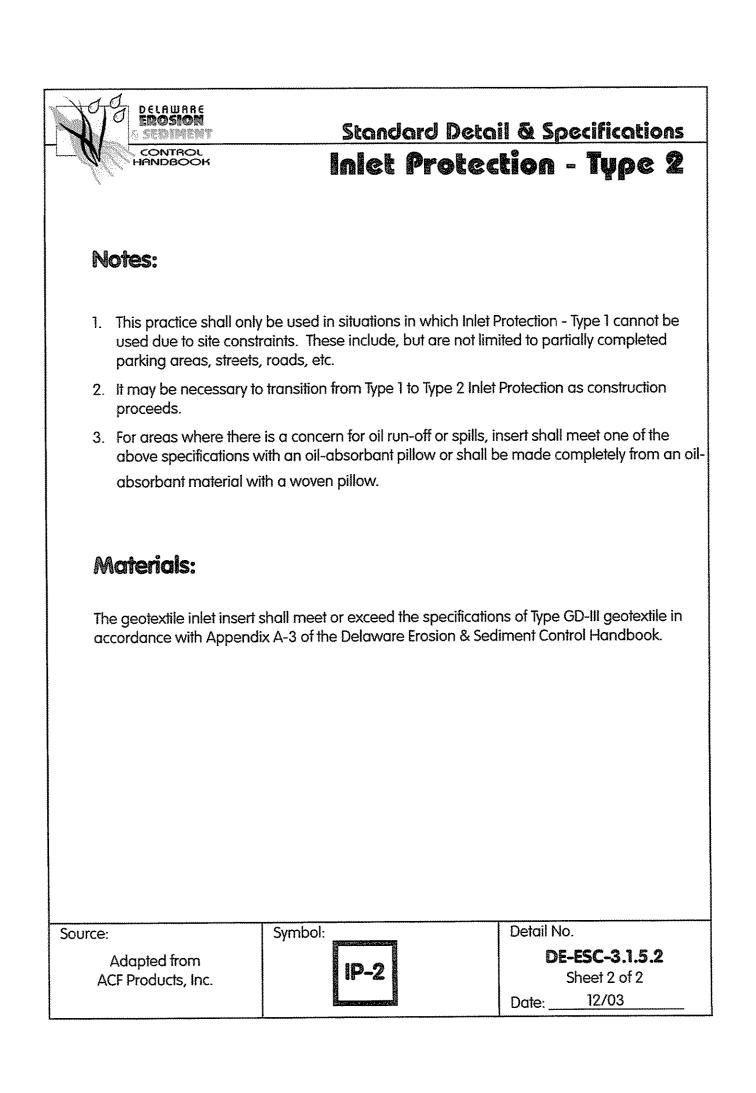
- Prior to installation, clear bedding area of obstructions including rocks or debris larger than 1 inch and fill in any sharp depression areas.
- 2. Fill the sock fabric using a pneumatic blower so that the logs are rigid and do not deform. Terminate at the desired length.
- 3. For trenched applications, excavate 2 to 4 inches below grade along the width and length of the
- . Install the compost filter logs perpendicular to the flow direction and parallel to the slope with the beginning and end of the installation pointing up the slope a minimum of 1 foot elevation difference. On sites where this is not possible, upturn at a minimum length of 10' at a 30 degree angle to
- For untrenched applications, blow or hand pack soil, mulch, or compost on the upslope side of the log, filling the bottom void area.
- 6. Stake the filled log every 10 feet maximum through the center of the sock for trenched applications, or every 8 feet for untrenched. The stake shall be a 2" by 2" hardwood. It should extend 12" below grade and protrude at least 3" above the top of the sock. If located on a slope greater than 8:1, the stake shall be angled downslope at a 45 degree angle to prevent the force of the water from dislodging to log.
- When the length of the compost filter log needed exceeds the available compost filter sock length, the next sock shall be overlapped a minimum of 12" before being filled, and a stake placed through both socks at the overlap.
- 8. Remove accumulated sediment when it has reached half of the effective height of the log.
- 9. Inspect weekly and after rain event. If sock is degrading or the sock is failing, vegetate to secure the compost, replace the log, or reinforce with an additional log. If the log has been crushed due to construction equipment, it can be "fluffed" back to its effective height. If the effective height can no longer be restored, the log shall be replaced or reinforced with an additional compost filter log.

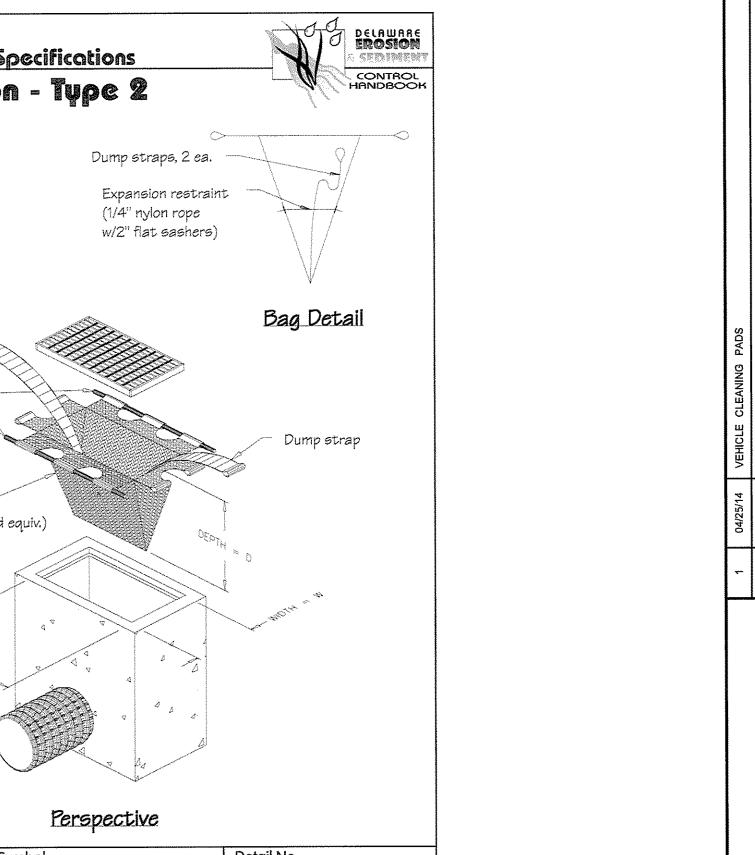
Source:	Symbol:	Detail No.
Adapted from MD Stds & Specs for ESC & Filtrexx TM International	CFL —	DE-ESC-3.1.7 Sheet 2 of 2 Date: 03/13

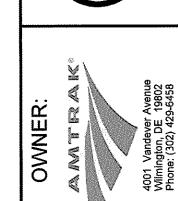












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DATE: 09/01/2015

SCALE: AS SHOWN

DESIGNED BY:RJH FILE NO.:213402048

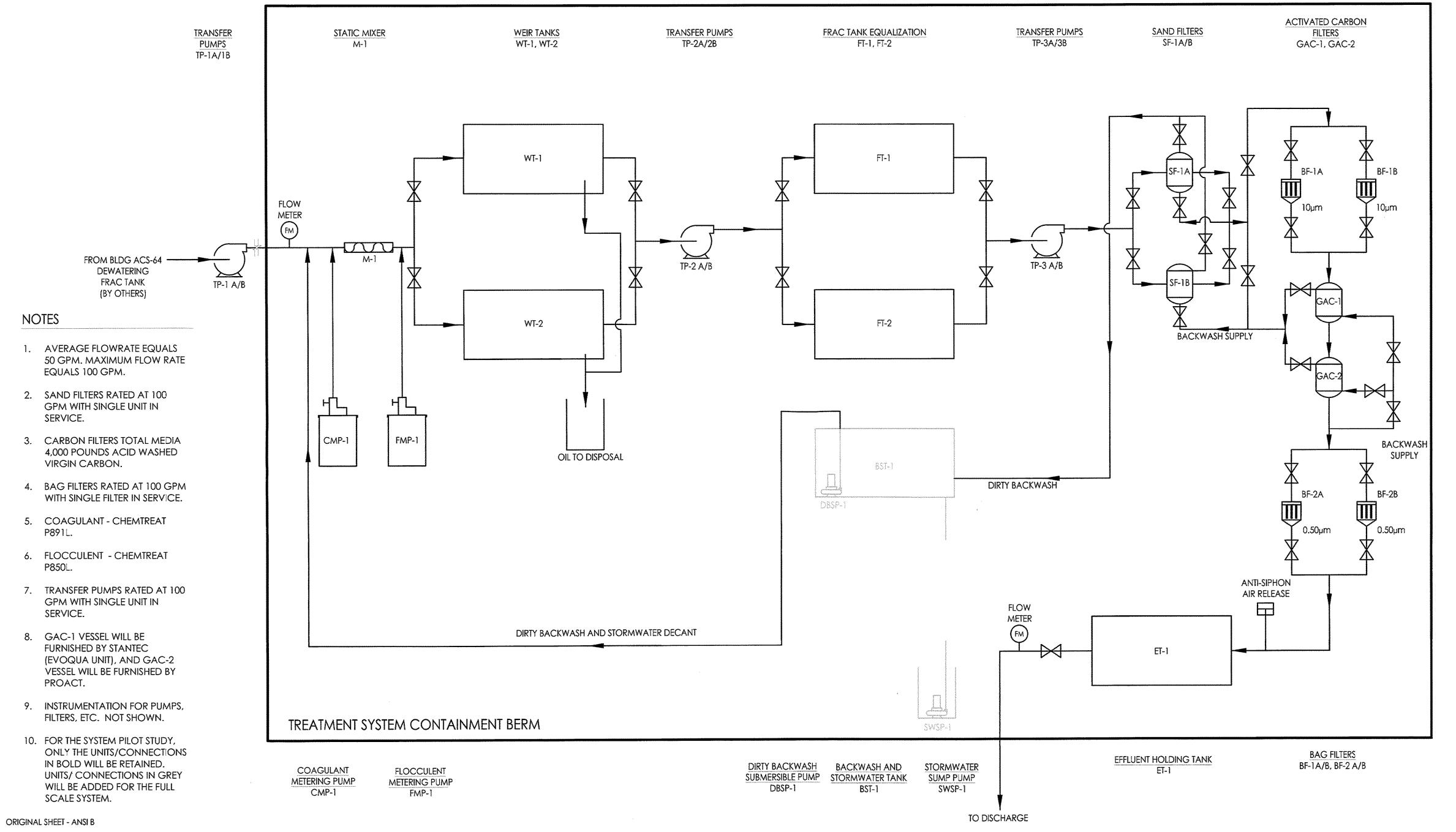
SHEET 11 OF 13

REV:

10/12/2015 WORKSPACE: U:\2134020

CONSTRUCTION SITE WASTE MANAGEMENT - DEWATERING FILTRATION SYSTEM NOTES AND PROCESS FLOW DIAGRAM

- 1. DURING EXCAVATION ACTIVITIES, ENCOUNTERED GROUND WATER WILL BE PROCESSED THROUGH THE TREATMENT SYSTEM AS SPECIFIED IN THE DEWATERING TREATMENT DESIGN AND THE DIAGRAM BELOW.
- 2. TREATED DEWATERING EFFLUENT WILL BE DISCHARGED INTO STORM DRAIN INLETS TO OUTFALL 007, A PERMITTED OUTFALL UNDER THE SITE-WIDE NPDES PERMIT NUMBER DE 0050962.



06/2015 213402048

ACS-64 DEWATERING TREATMENT SYSTEM PROCESS FLOW DIAGRAM NOT TO SCALE

E&S CONTROL NOTES AND DETAIL FOR MILMINGTON MAINTENANCE FACILITIES AND INFRASTRUCITY OF WILMINGTON NEW CASTLE DATE: 09/01/2015 SCALE: AS SHOWN DESIGNED BY:RJH

THIS DOCUMENT WAS PREPARED BY:

FOR:

AMTRAK

FILE NO.:213402048 SHEET 12 OF 13

REV:

VEHICLE DECONTAMINATION

PHYSICAL DECONTAMINATION

A. GENERAL

- 1. THIS SECTION DESCRIBES THE EQUIPMENT AND PROCEDURES FOR DECONTAMINATION OF EQUIPMENT AND VEHICLES DURING OPERATIONS INVOLVING IMPACTED MATERIALS.
- 2. COMPLY WITH THE REQUIREMENTS OF THE HEALTH & SAFETY PLAN (HASP) SUBMITTED TO AND ACCEPTED BY THE OWNER AS WELL AS ALL OTHER TECHNICAL SPECIFICATIONS RELATING TO THE TEMPORARY STORAGE. HANDLING AND DISPOSAL OF IMPACTED MATERIAL AND WASTE AND CONTROL OF WATER ON THE SITE.

B. PRODUCTS

- 1. NON-POTABLE WATER TANK
- A PROVIDE A NON-POTABLE WATER TANK FOR USE AS A DECONTAMINATION WATER SUPPLY.
- B. DO NOT PLACE CONTAMINATED OR POTENTIALLY CONTAMINATED FLUIDS IN THE TANK/CONTAINER HOLDING WATER TO BE USED FOR DECONTAMINATION.
- C. DO NOT USE ADDITIVES (CAUSTICS, DETERGENTS, ETC.) FOR EQUIPMENT DECONTAMINATION.

2. EQUIPMENT AND VEHICLE CLEANING PAD

- A. CONSTRUCT A VEHICLE CLEANING PAD TO BE USED TO DECONTAMINATE ALL EQUIPMENT AND VEHICLES EXITING FROM THE
- B. THE CLEANING PAD MUST INCLUDE THE FOLLOWING ELEMENTS AT A
- BE DESIGNED FOR INTENDED USE (I.E., FOR THE DURATION OF THE
- ii. A COLLECTION SYSTEM FOR THE SPENT DECONTAMINATION WATER; iii. BE ADEQUATELY SIZED TO ACCOMMODATE THE WIDTH AND LENGTH OF THE LARGEST PIECE OF EQUIPMENT USED ON-SITE THAT MAY
- ENCOUNTER CONTAMINATED MATERIAL iv. BE SURROUNDED BY A MINIMUM 42-INCH-HIGH SUPPORTED
- CONTAINMENT BERM OR STRUCTURE; v. CONTAIN MEASURES TO ENSURE THAT SPLASH AND OVERSPRAY REMAIN WITHIN THE DECONTAMINATION PAD AND ARE COLLECTED
- WITH THE DECONTAMINATION WATER; vi. BE LINED WITH AN IMPERVIOUS BARRIER (E.G., HDPE OR VLDPE) AND SLOPE TO A SUMP AT THE LOW POINT TO ALLOW FOR COLLECTION
- OF DECONTAMINATION WATER; AND, vii. BE EQUIPPED WITH WATER-TIGHT SUMP, SUBMERSIBLE PUMP AND FLOAT SWITCH TO ACTIVATE THE PUMP SYSTEM.

3. PRESSURE WASHER

- A. PROVIDE A GASOLINE POWERED PRESSURE WASHER WITH HIGH-PRESSURE CAPACITY.
- B. MINIMUM CAPACITY OF WASHER: 2 TO 4 GALLONS PER MINUTE AT 3,500 POUNDS PER SQUARE INCH (PSI).

4. SUBMERSIBLE PUMPS

A PROVIDE PUMPS NECESSARY TO TRANSPORT WATER FROM THE VEHICLE CLEANING PAD TO A CONTAINER FOR TRANSFER TO THE WATER TREATMENT FACILITY SYSTEM PRIOR TO DISCHARGE TO ADJACENT UPLAND AREAS OF THE SITE FOR RE-INFILTRATION.

5. DECONTAMINATION PIPING

- a. USE PIPE OR HOSE TO CONVEY UNTREATED WATER;
- b. PROTECT THE PIPING FROM DAMAGE AND THE ELEMENTS: AND
- c. PROVIDE ALL PIPING NECESSARY TO RENDER THE TEMPORARY CLEANING FACILITIES OPERATIONAL.

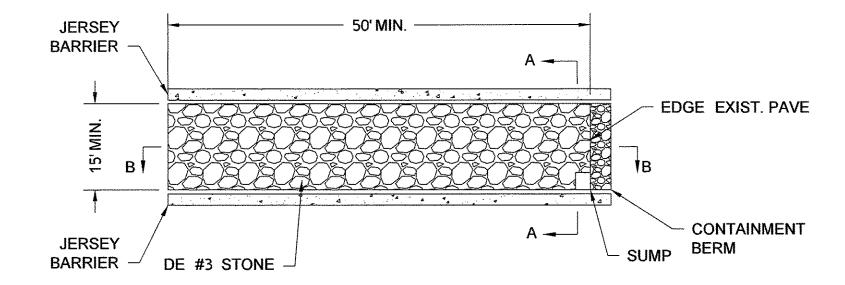
C. EXECUTION

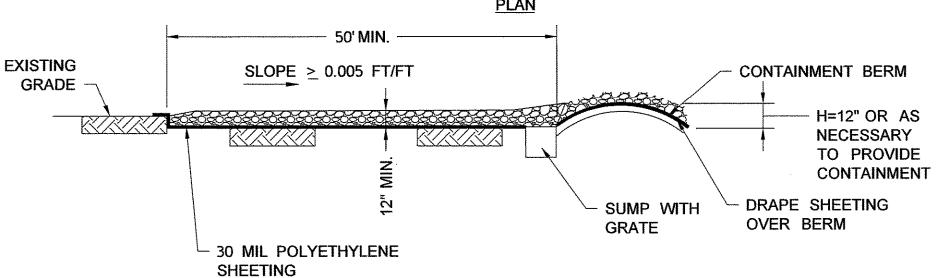
6. INSTALLATION AND OPERATION

- a INSTALL AND RELOCATE AS NECESSARY THE VEHICLE CLEANING PAD.
- b. OPERATE AND MAINTAIN THE VEHICLE CLEANING PAD AND ALL EQUIPMENT ASSOCIATED WITH THE PAD FOR THE DURATION OF THE WORK REQUIRING THE EXCAVATION, LOADING, AND/OR HANDLING OF ANY IMPACTED MATERIAL AT THE SITE.
- c. VEHICLE CLEANING WATER SHALL BE MANAGED ON SITE. DURING EARTHWORK ON SUBGRADE MATERIALS, VEHICLE CLEANING WATER SHALL BE PROCESSED ON SITE AT THE WATER TREATMENT FACILITY. CARBON TO BE DISPOSED OFF SITE AT A TSCA DISPOSAL FACILITY. FILTERED WATER SHALL BE DISCHARGED TO THE OUTFALL 007 STORMWATER CONVEYANCE.
- d. DISMANTLE VEHICLE CLEANING PAD AS NECESSARY TO FACILITATE SUBSEQUENT WORK.
- e. MAINTAIN ALL CONSTRUCTION ENTRANCES AND EXITS FOR THE DURATION OF THE WORK. MAINTENANCE INCLUDES. BUT IS NOT LIMITED TO RE-GRADING, PROVIDING AND REPLACING AND/OR REFURBISHING CRUSHED STONE ROADWAYS (BOTH WITHIN AND EXTERIOR TO THE DECONTAMINATION PAD(S)), SILT BARRIERS, STAKES, SIGNAGE AND ALL OTHER MATERIALS NECESSARY TO MINIMIZE TRACKING ANY MATERIAL OUTSIDE THE DEFINED PROJECT LIMITS.

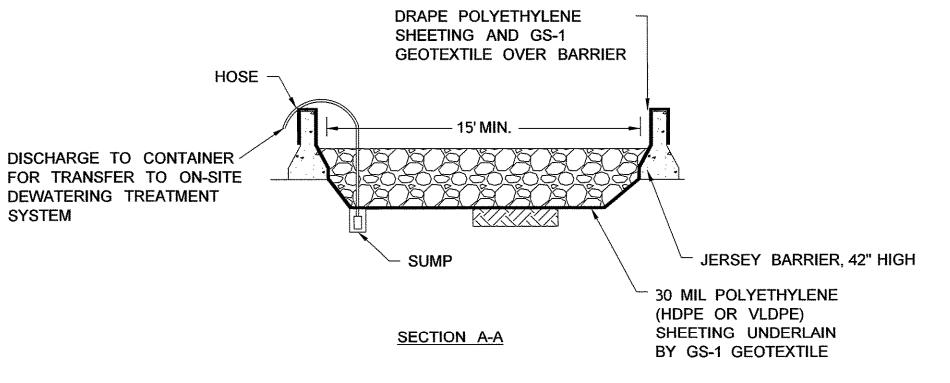
CLEANUP AND DEMOBILIZATION

A. SWEEP ALL PAVED AREAS SO THAT THEY ARE FREE OF DIRT.



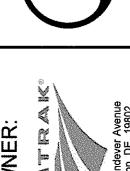


SECTION B-B



VEHICLE CLEANING PAD NOT TO SCALE

- 1. STONE SIZE USE DE #3 STONE.
- 2. LENGTH AS REQUIRED, BUT NOT LESS THAN 50 FEET.
- 3. THICKNESS NOT LESS THAN SIZE (6) INCHES.
- 4. WIDTH TEN (10) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- 5. GEOTEXTILE TYPE GS-I: PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- 6. SURFACE WATER ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- 7. MAINTENANCE THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- 8. WASHING VEHICLE WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- 9. INSPECTION PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.



THIS DOCUMENT WAS PREPARED BY:

STANTEC FOR: AMTRAK

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DATE: 09/01/2015 SCALE: AS SHOWN

DESIGNED BY:RJH FILE NO.:213402048 SHEET 13 OF 13

ACS-64 DEWATERING TREATMENT SYSTEM EQUIPMENT LAYOUT NOT TO SCALE